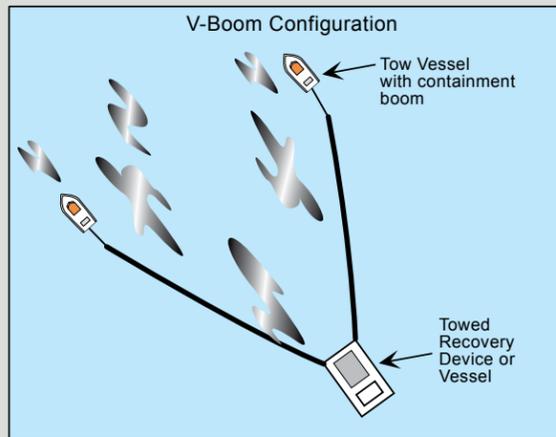
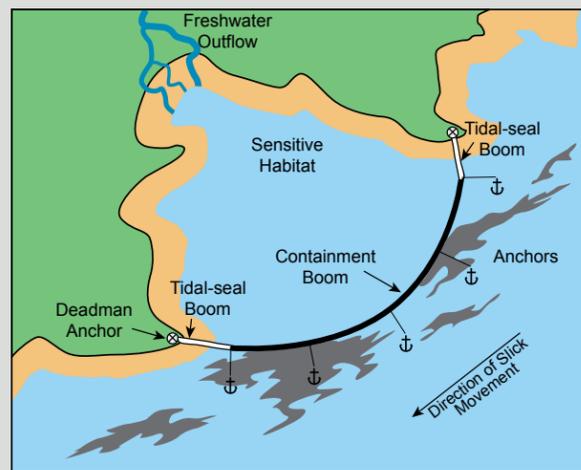


An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Free-oil Recovery Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Exclusion Booming Tactic*. Actual deployment should be adjusted for local conditions.

**Map Legend**

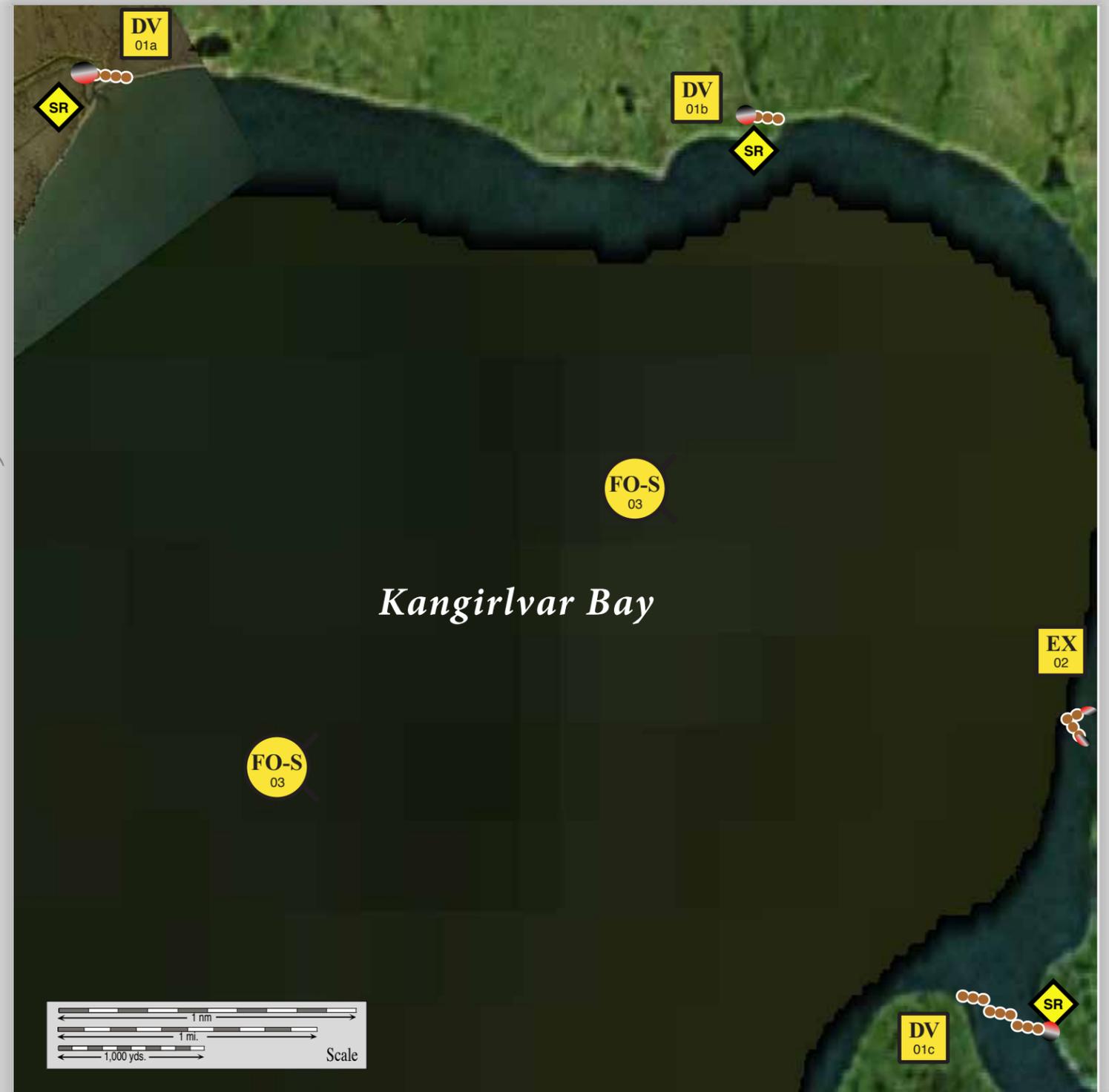
|  |                   |  |                    |
|--|-------------------|--|--------------------|
|  | Free-oil Recovery |  | Shoreside Recovery |
|  | Diversion Booming |  | Fast-water Boom    |
|  | Exclusion Booming |  | Tidal-seal Boom    |

Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Western Alaska Subarea, Southern Zone

# Kangirlvar Bay, WAK-S01

Center of map at 60° 28.55' N Lat., 165° 08.23' W Lon.



This is not intended for navigational use.

| ID   | Location and Description   | Response Strategy  | Implementation  | Response Resources   | Staging Area | Site Access                          | Resources Protected (months)  | Special Considerations   |
|--|--|--|---|--|--------------|--------------------------------------|---|--|
| S-01-01<br>   | <b>Kangirlvar Bay</b><br><br><b>Toksook Bay</b><br>a. Lat. 60°31.91'N<br>Lon. 165°06.25'W<br><br><b>Alackuchak Creek</b><br>b. Lat. 60° 32.62'N<br>Lon. 165°03.82'W<br><br><b>Toksook River</b><br>c. Lat. 60° 30.21'N<br>Lon. 164°58.26'W | <b>Divert and Collect</b><br>Divert oil to shore side collection location on the shore of the identified creeks and rivers in Kangirlvar Bay                 | Deploy anchors and boom with skiffs (class 6).<br><br>Place fast-water boom at the proper angle to divert incoming oil to the collection sites. For (c) cascade 3 sections of boom to deflect the oil to the collection site. Complete the arrays with 60-foot sections of tidal seal boom.<br><br>Set up shore-side recovery and tend throughout the tide.<br><br>Boom Lengths:<br>a. 300 ft<br>b. 300 ft.<br>c. 900 ft. | <b>Deployment Equipment</b><br>1500 ft. fast-water boom<br>180 ft. tidal seal boom<br>10 ea. anchor systems<br>12 ea. anchor stakes<br>3 ea. shore-side recovery systems<br><b>Vessels</b><br>3 ea. class 6<br><b>Personnel/Shift</b><br>6 ea. vessel crew/general techs<br>4 ea. response techs<br><b>Tending Vessels</b><br>2 ea. class 6<br><b>Personnel/Shift</b><br>4 ea. vessel crew/general techs<br>3 ea. skilled tech | Toksook Bay  | Via marine waters<br><br>Chart 16006 | Fish- intertidal spawning-salmon, herring (June-Sept.), arctic char, sheefish, white fish,<br><br>Birds-waterfowl, seabird and shorebird concentration<br><br>Marine mammals- seals<br><br>Habitat- exposed tidal flats, peat shoreline, marsh<br><br>Human use-subsistence | Vessel master should have local knowledge.<br><br>Use appropriate measures as outlined in the STAR manual to protect the shoreline.<br><br>Title 41 permitting required from ADNOR.<br><br>THREATENED OR ENDANGERED SPECIES/HABITAT POSSIBLE.<br>Discuss with DOI prior to on-site operations.<br><br>Surveyed: not yet<br><br>Tested: not yet |
| S-01-02<br>   | <b>Kangirlvar Bay</b><br>Lat. 60° 31.40'N<br>Lon. 164°57.67'W  | <b>Exclusion</b><br>Exclude oil from impacting the identified stream and in Kangirlvar Bay.  | Deploy anchors and boom with skiffs (class 6) at high tide.<br><br>Place fast-water boom in a chevron pattern across the mouths of the identified stream. Complete the array with 60 ft. of tidal seal boom on each leg.<br><br>Tend throughout the tide.   | <b>Deployment Equipment</b><br>200 ft. fast-water boom<br>120 ft. tidal seal boom<br>19 ea. anchor systems<br>16 ea. anchor stakes<br><b>Vessels/Personnel/Shift</b><br>Same as S-01-01<br><b>Tending Vessels/Personnel/Shift</b><br>Same as S-01-01   | Toksook Bay  | Via marine waters<br><br>Chart 16006 | Same as S-01-01   | Vessel master should have local knowledge.   |
| S-01-03<br> | <b>Kangirlvar Bay</b><br>Nearshore waters in the general area of:<br><br>Lat. 60° 28.55'N<br>Lon. 165°08.23'W  | <b>Free-oil Recovery</b><br>Maximize free-oil recovery in the offshore & nearshore environment of Kangirlvar Bay depending on spill location and trajectory. | Deploy free-oil recovery strike teams upwind and up current of the Kangirlvar Bay.<br><br>Use aerial surveillance to locate incoming slicks.  | Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.  | Toksook Bay  | Via marine waters<br><br>Chart 16006 | Same as S-01-01   | Vessel master should have local knowledge.<br><br>Use extreme caution, shallow waters with shifting channels and bars.   |

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Western Alaska Subarea Contingency Plan: [http://dec.alaska.gov/spar/perp/plans/scp\\_wak.htm](http://dec.alaska.gov/spar/perp/plans/scp_wak.htm).